# **Decision Support System (DSS)**

## **Technical Manual**

Software Version 3.0 Patch ECX\*3.0\*161



September 2016
Document Version 1.1

# **Revision History**

Date	Version	Description	Author
09/28/2016	v1.1	Updated document to address PS comments	TeamSMS/Leidos
09/08/2016	v1.0	Initial Document Release	TeamSMS/Leidos

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#### 1 Introduction

The Decision Support System (DSS) is the designated Managerial Cost Accounting (MCA) System of the Department of Veterans Affairs (VA) as mandated in the Veterans Health Administration (VHA) Directive 1750 VHA Managerial Cost Accounting System (Decision Support System (DSS)), March 24, 2015.

DSS is a derived database built from standard VHA data sources. The Managerial Cost Accounting Office (MCAO) uses clinical and financial data to provide state-of-the-art activity-based costing and clinical productivity analyses.

This is a design-to-schedule project with a compulsory Patch Release date of no later than November 1, of the new Fiscal Year (FY). This project enables the MCAO to accurately accommodate changes to the primary Clinical Transaction Systems made during the preceding year, ensuring the Workload data has been accurately captured and costed to the Product Level.

MCA Cost Data is used at all levels of the VA for functions such as budgeting and resource allocation. Additionally, the system contains a rich repository of clinical information used to promote a proactive approach to the care of high-risk (i.e. diabetes and acute coronary patients) and high-cost patients.

#### 1.1 Overview

The DSS Extracts Version 3.0 software provides a means of exporting data from selected Veterans Health Information Systems and Technology Architecture (VistA) software modules and transmitting it to a DSS database residing at the Austin Information Technology Center (AITC).

This transfer is accomplished through a set of extract routines, intermediate files, and transmission routines. Data from VistA packages is stored by the extract routines in the intermediate files, where it is temporarily available for local use and auditing. The data is then transmitted to the AITC, where it is formatted and uploaded into commercial software. After the data has been successfully uploaded into the commercial software, it is purged, from the intermediate files.

## 1.2 Purpose

The DSS Technical Manual serves the following purposes:

- Provides technical information to aid Automated Data Processing Application Coordinators (ADPACs) and Information Resource Management (IRM) service staff responsible for implementing and maintaining the software.
- Provides technical information to aid Database Administrator (DBA) personnel responsible for maintaining database files.
- Provides security information for Information Security Officers (ISO) and Regional ISOs (RISO).

#### 1.3 Functions of the Software

The DSS Extracts software provides the following functionalities:

- Implements Extracts Processes
- Schedules Extracts
- Verifies Extracts against other VistA Reports
- Transmits Extracts to Commercial Software
- Verifies Transmissions

- Allows Deleting of Extracts
- Allows Purging of Holding Files for IV Detail Extract (IVP), Unit Dose Local Extract (UDP) and VistA Blood Establishment Computer Software (VBECS) Blood Bank Extracts.

## 2 Orientation

This manual is recommended as a reference document for technical users (e.g. ADPACs or IRMs). Package security information is located in the Security Sections of this manual.

## 2.1 User Responses

User responses in the examples presented in this manual are displayed in bold type.

#### **General Information** 3

This section contains general information to aid in the understanding and use of this document.

#### **Namespace Information** 3.1

The namespace assigned to the DSS Extracts software is ECX.

#### 3.2 **Background Job Options**

There are no routine background jobs that must run to maintain normal package operation for DSS Extracts. However, users performing a DSS data extract must execute it as a background task (queued through TaskManager).

Both Statistical Analysis System (SAS) and Extract Audit reports can be displayed on the user's screen, printed immediately to a print device, or queued to a print device. All other reports can only be printed as queued background jobs and cannot be stopped through the TaskMan User [XUTM USER] option.

Table 1 lists the functions that must be queued as background tasks.

**Function Menu Option Details** Transmit extract data Transmit Data from Extract Files [ECXTRANS] [XUTM USER] Stop extract TaskMan user option **Background Task** • Users are able to stop the Extract Background Task while it is running by using the TaskMan user [XUTM] USER] option. Data in any resulting incomplete extract should be deleted using the *Delete Extract Files* [ECXDELEF] option. • If queued as a background task, users can stop the background task while it is running by using the TaskMan user [XUTM USER] option Delete extract data [ECXDELEF] **Delete Extract Files** Purge extract holding [ECXPURG] Purge Extract Holding Files files • Data in the holding files for the IVP, UDP and VBECS files can be purged using the Purge Extract Holding Files [ECXPURG] option.

Table 1: Required Queued Background Tasks

#### **Resource Requirements** 3.3

Table 2 provides information on extract files. The bytes per record estimates in this table include the file cross-reference.

**Extract Name** Bytes per Record (Estimated Mean Size)

Table 2: Extract Name/Bytes per Record

**ADM Admission Extract** 

Extract Name	Bytes per Record (Estimated Mean Size)
CLI Clinic Extract	485
ECQ QUASAR Extract	450
ECS Event Capture Local Extract	450
IVP IV Detail Extract	500
LAB Laboratory Extract	250
LAR Lab Results Extract	200
LBB Blood Bank Extract	200
MOV Physical Movement Extract	225
PRE Prescription Extract	425
PRO Prosthetics Extract	400
RAD Radiology Extract	300
SUR Surgery Extract	425
TRT Treating Specialty Change Extract	275
UDP Unit Dose Local Extract	375

#### 3.3.1 Special Note on IVP and UDP Extracts

IV orders will accumulate in the IV EXTRACT DATA file (#728.113) and Unit Dose orders will begin to accumulate in the UNIT DOSE EXTRACT DATA file (#728.904). These files are loaded dynamically as Pharmacy orders for intravenous and unit dose medicines are processed. Each record in these files uses approximately 100 bytes.

Extreme caution must be used when performing maintenance on the IV EXTRACT DATA file (#728.113) and the UNIT DOSE EXTRACT DATA file (#728.904). If data in either file is purged, the IVP or UDP monthly extract may be incomplete. It is strongly recommended that, at a minimum, sites maintain all data, from the *current fiscal year*.

The holding files for IVP and UDP can be purged. Two functions were created to regenerate purged IVP and UDP holding file data. The steps shown in Table 3 must be executed from the Systems Manager Menu to access these options:

Table 3: Steps to Regenerate IVP and UDP Holding Files

Step	Action/Menu Option	
1	Extract Manager's Options	
2	Transmission Management	
3	Recreate Extract Holding Files	

Note: Holding files can become quite large if appropriate purging is not performed. The option, Purge Extract Holding Files [ECXPURG] purges holding files from IVP and UDP by date range.

#### 3.3.2 Special Note on Pharmacy Extract Files

The Pharmacy DSS Extract files shown in Table 4 are audited when entries are edited through the menu option Pharmacy Volume Edit [ECX PHA VOL EDIT]. Entries are stored in the AUDIT file (#1.1).

**Table 4: Audited Fields When Updates Occur** 

File	File#	Audited Fields
PRESCRIPTION EXTRACT	#727.81	QUANTITY and UNIT OF ISSUE fields are audited, in the Prescription (PRE) extract
UNIT DOSE LOCAL EXTRACT	#727.809	Only updates to the QUANTITY field is audited
IV DETAIL EXTRACT	#727.819	Updates to the QUANTITY and TOTAL DOSES PER DAY fields are audited.
BCMA EXTRACT	#727.833	Updates to the COMPONENT DOSE GIVEN and COMPONENT UNITS fields are audited.

#### 3.3.3 Time Estimates for Extracts

Extracts generally require approximately two to four minutes per 1000 records extracted on Digital Equipment Corporation (DEC) microprocessors implementing the Alpha/AXP Reduced Instruction Set Computer (RISC) architecture and should be queued to run during a non-peak system usage period.

Table 5 contains examples of approximate run times for extracts.

**Table 5: Extract Time Estimates** 

Extract Name	Approximate Length of Time
Admission (ADM)	Less than ten minutes
Treating Specialty Change (TRT)	
Physical Movement (MOV)	
Clinic (CLI)	5 hours for 48,000 records
Laboratory (LAB)	6 hours for 100,000 records
Prescription (PRE)	3.5 hours for 49,000 records

#### 3.4 Data Transmission

Data is transmitted to the AITC using VA MailMan mail messages. The first line of each message is a header that identifies the following entities: Site, Extract, Year and Month, and SAS version identifier in the following format in Figure 1:

Figure 1: Data Transmission Header

521RAD199710007

Site	Extract	Year and Month	Version ID
521	RAD	199710	007

During the transmission process, its Internal Entry Number (IEN) is entered in the MESSAGE NUMBER field (#301), of the DSS EXTRACT LOG file (#727). There are options that allow the Extract Manager or designee to monitor this file. As confirmation messages are received from the AITC, multiple entries in the MESSAGE NUMBER field (#301) are deleted.

# 4 Implementation and Maintenance

The Management Menu enables the Extract Manager or designee to perform a variety of functions, listed in Table 6:

**Table 6: Management Menu Options & Activities** 

Menu Option	Activity
Perform Maintenance	Produce Community Based Outpatient Clinic (CBOC) Activity Reports
Activities	Perform Current Procedural Terminology (CPT) Inquiries
	Perform DSS Department Management Activities
	Produce Event Capture Activity Reports
	Perform Laboratory Results Translation Table Maintenance Activities
	Produce Laboratory Results Reports
	Perform Pharmacy Log Maintenance Activities
	Produce Pharmacy Extract Reports
	Produce Pharmacy UDP/IVP Source Audit Reports
	Print Feeder Key Listing
	Print Feeder Location Listings
	Produce Prosthetics Reports
	Maintain Prosthetics Extract Quantity Information
	Perform DSS Setup Activities
	Produce DSS Clinic Setup Reports
	Perform Inpatient Census Setup Activities
	Perform Inpatient Medication Information Setup Activities
	<ul> <li>Produce Reports on Surgery Case Loads (Total Volumes and Unusually High Volume Periods)</li> </ul>
Produce Package Extracts	Produce Admissions Extract
	Produce BCMA Extract
	Produce Blood Bank Extract
	Produce Clinic Visit Extract
	Produce Event Capture Extract
	Produce IV Extract
	Produce Lab Extract
	Produce Lab Results Extract
	Produce Prescription Extract
	Produce Prosthetics Extract
	Produce QUASAR Extract
	Produce Radiology Extract
	Produce Surgery Extract
	Produce Transfer and Discharge Extract
	Produce Treating Specialty Change Extract
	Produce Unit Dose Extract
	Produce Extracts Using New Fiscal Year Logic When Performing Extract Testing

Menu Option	Activity	
Produce Extract Audit Reports	To include SAS Extracts	
Perform Extract Transmission Management Activities	<ul> <li>Review Extracts for Transmission</li> <li>Transmit Extract Files</li> <li>Produce Summary Report of Extract Logs</li> <li>Delete Extract Files</li> <li>Purge Extract Holding Files</li> <li>Recreate Extract Holding Files</li> </ul>	

Refer to the <u>DSS Extracts V3.0 Installation Guide</u> for more information about installing and implementing the software.

#### 5 Routines

This section describes relevant technical aspects of DSS Application routines.

#### 5.1 Routine List

From the Systems Manager Menu, perform the steps outlined in Table 7 to obtain a list of routines contained in the DSS package:

**Table 7: Steps to List DSS Routines** 

Step	Action/Menu Option		
1	Programmer Options		
2	Routine Tools		
3	First Line Routine Print		
4	All Routines? No => <b><enter></enter></b>		
5	Routine Selector: ECX*		
6	Routine: <enter></enter>		
7	(A)Ipha, (D)ate, (P)atched, OR (S)ize ORDER: A// <enter></enter>		
8	Include line (2), Include lines 2&(3), (N)one: None// <enter></enter>		
9	DEVICE: HOME// <enter> HOME Carriage Return (CRT) Right Margin: 80//<enter></enter></enter>		

# 5.2 Callable Routines/Entry Points/Application Programmer Interfaces

The DSS Extracts software has no callable Application Programmer Interfaces (APIs).

## 5.3 Routines to Map

There are no routines in DSS Extracts that are recommended for mapping.

#### 5.4 External Interfaces

There are no external interfaces used by DSS Extracts.

#### 6 Files

This section contains information pertaining to the files manipulated by the DSS application software.

#### 6.1 Global Placement

DSS Extracts use one global command, for data storage: ^ECX. During first-time installation use global protection and placement when appropriate.

#### 6.2 File List

The DSS Extracts software with all patches installed exports the files that appear in Table 8. Use the Systems Manager Menu > VA FileMan > Data Dictionary > List File Attributes option to print the Data Definitions (DDs).

Note: <u>VA Directive 6402, Standardization of VistA National Software, August 28, 2013</u> prohibits local modification of these files.

The file names, associated file numbers and extract abbreviations (where applicable) are listed in Table 8:

Table 8: File List Table

File Number	Abbreviation	File Name
727	-	DSS EXTRACT LOG
727.1	-	EXTRACT DEFINITIONS
727.29	-	DSS LOINC FILE
727.3	-	DSS DIVISION IDENTIFIER
727.4	-	DSS WARD
727.5	-	DSS MH TESTS
727.7	-	LAB RESULTS TRANSLATION
727.802	ADM	ADMISSION EXTRACT
727.804	-	CLINIC NOSHOW EXTRACT
727.805	-	NURSING EXTRACT
727.806	-	DENTAL EXTRACT
727.808	MOV	PHYSICAL MOVEMENT EXTRACT
727.809	UDP	UNIT DOSE LOCAL EXTRACT
727.81	PRE	PRESCRIPTION EXTRACT
727.811	SUR	SURGERY EXTRACT
727.813	LAB	LABORATORY EXTRACT
727.814	RAD	RADIOLOGY EXTRACT
727.815	ECS	EVENT CAPTURE LOCAL EXTRACT
727.816	-	CLINIC I EXTRACT
727.817	TRT	TREATING SPECIALTY CHANGE EXTRACT
727.818	-	CLINIC II EXTRACT
727.819	IVP	IV DETAIL EXTRACT

File Number	Abbreviation	File Name
727.82	-	ADMISSION SETUP EXTRACT
727.821	-	PHYSICAL MOVEMENT SETUP EXTRACT
727.822	-	TREATING SPECIALTY CHANGE SETUP EXTRACT
727.823	-	PAI EXTRACT
727.824	LAR	LAB RESULTS EXTRACT
727.825	ECQ	QUASAR EXTRACT
727.826	PRO	PROSTHETICS EXTRACT
727.827	CLI	CLINIC EXTRACT
727.829	LBB	BLOOD BANK EXTRACT
727.831	-	DSS TREATING SPECIALTY TRANSLATION
727.833	ВСМ	BCMA EXTRACT
728	-	DSS EXTRACTS
728.113	-	IV EXTRACT DATA
728.44	-	CLINICS AND STOP CODES
728.441	-	NATIONAL CLINIC
728.506	-	DSS DRUG PRODUCT CODE
728.904	-	UNIT DOSE EXTRACT DATA
729	-	DSS PRODUCTION UNIT

#### 6.3 Field List

The modifications associated with the release of DSS FY2017 Extract Sustainment Patch ECX\*3.0\*161 include the following lists of modified field name and number by extract, in Table 9.

**Table 9: Field Changes in DSS for Current Release** 

Field Name	Field Number	File Name	File Number
PLACEHOLDER	#32	ADMISSION EXTRACT	#727.802
PLACEHOLDER	#38	ADMISSION EXTRACT	#727.802
OBSERVATION PATIENT INDICATOR	#48	BCMA EXTRACT	#727.833
PLACEHOLDER	#18	BLOOD BANK EXTRACT	#727.829
PLACEHOLDER	#27	CLINIC EXTRACT	#727.827
PLACEHOLDER	#28	CLINIC EXTRACT	#727.827
PLACEHOLDER	#29	CLINIC EXTRACT	#727.827
PLACEHOLDER	#30	CLINIC EXTRACT	#727.827
PLACEHOLDER	#31	CLINIC EXTRACT	#727.827
ACTION TO SEND	#5	CLINICS AND STOP CODES	#728.44
PLACEHOLDER	#29	EVENT CAPTURE LOCAL EXTRACT	#727.815
PLACEHOLDER	#30	EVENT CAPTURE LOCAL EXTRACT	#727.815
PLACEHOLDER	#31	EVENT CAPTURE LOCAL EXTRACT	#727.815

Field Name	Field Number	File Name	File Number
PLACEHOLDER	#32	EVENT CAPTURE LOCAL EXTRACT	#727.815
PLACEHOLDER	#33	EVENT CAPTURE LOCAL EXTRACT	#727.815
PLACEHOLDER	#43	EVENT CAPTURE LOCAL EXTRACT	#727.815
PLACEHOLDER	#28	IV DETAIL EXTRACT	#727.819
PLACEHOLDER	#23	LABORATORY EXTRACT	#727.813
PLACEHOLDER	#21	LAB RESULTS EXTRACT	#727.824
PLACEHOLDER	#25	PHYSICAL MOVEMENT EXTRACT	#727.808
ENCOUNTER SHAD	#18	PRESCRIPTION EXTRACT	#727.81
PLACEHOLDER	#35	PRESCRIPTION EXTRACT	#727.81
ENCOUNTER SC	#99	PRESCRIPTION EXTRACT	#727.81
ENCOUNTER CAMP LEJEUNE	#102	PRESCRIPTION EXTRACT	#727.81
PLACEHOLDER	#15	PROSTHETICS EXTRACT	#727.826
PLACEHOLDER	#16	PROSTHETICS EXTRACT	#727.826
PLACEHOLDER	#17	PROSTHETICS EXTRACT	#727.826
PLACEHOLDER	#18	PROSTHETICS EXTRACT	#727.826
PLACEHOLDER	#19	PROSTHETICS EXTRACT	#727.826
PLACEHOLDER	#39	PROSTHETICS EXTRACT	#727.826
PLACEHOLDER	#29	QUASAR EXTRACT	#727.825
PLACEHOLDER	#30	QUASAR EXTRACT	#727.825
PLACEHOLDER	#31	QUASAR EXTRACT	#727.825
PLACEHOLDER	#32	QUASAR EXTRACT	#727.825
PLACEHOLDER	#33	QUASAR EXTRACT	#727.825
PLACEHOLDER	#43	QUASAR EXTRACT	#727.825
PLACEHOLDER	#24	RADIOLOGY EXTRACT	#727.814
PLACEHOLDER	#17	SURGERY EXTRACT	#727.811
ANESTHESIA TIME	#21	SURGERY EXTRACT	#727.811
PLACEHOLDER	#38	SURGERY EXTRACT	#727.811
PLACEHOLDER	#25	TREATING SPECIALTY CHANGE EXTRACT	#727.817
PLACEHOLDER	#23	UNIT DOSE LOCAL EXTRACT	#727.809

## 6.3.1 Templates and File Flow

Perform the following steps listed in Table 10 from the Systems Manager Menu to obtain information about the templates and mapped file-flow relationships for DSS Extracts when all patches are installed.

Table 10: Steps to List DSS Templates & Map Menu Options

Step	Actions/Menu Options for Templates	Actions/Menu Options for File Flows (Relationships between Files)	
1	VA FileMan	VA FileMan	

Step	Actions/Menu Options for Templates	Actions/Menu Options for File Flows (Relationships between Files)
2	Print File Entries	Data Dictionary Utilities
3	OUTPUT FROM WHAT FILE: Print Template or Sort Template	Map Pointer Relations
4	SORT BY: NAME// Name	Select PACKAGE NAME: DSS EXTRACTS
5	START WITH NAME: FIRST// ECX	Remove FILE: <enter></enter>
6	GO TO NAME: LAST// <b>ECXZ</b>	Add FILE: > Enter name or number for files to include in the output.  Note: This prompt will repeat.
7	WITHIN NAME, SORT BY: <b><enter></enter></b>	Add FILE:< <b>Enter</b> >
8	FIRST PRINT FIELD: Name	Enter name of file group for optional graph header: DSS EXTRACTS//< <b>Enter&gt;</b>
9	THEN PRINT FIELD: < Enter>	DEVICE: <enter> HOME Carriage Return (CRT) <enter></enter></enter>
10	Heading (S/C): PRINT TEMPLATE LIST// <enter></enter>	N/A
11	START AT PAGE: 1// <enter></enter>	N/A
12	DEVICE: < <b>Enter</b> > HOME (CRT) Right Margin: 80// < <b>Enter</b> >	N/A

## 7 Exported Options

This section provides relevant information on DSS application software exported options.

#### 7.1 Menu Online

The DSS Extracts software contains one primary menu option, Extract Manager's Options [ECXMGR], which contains options for the following five submenus. These options are fixed and are not subject to modification except by the Software Developers. These options are accessed by entering **^Extract Manager's Options** from the Systems Manager Menu and listed in Table 11.

 Menu Option
 Description

 M
 Maintenance

 P
 Package Extracts

 S
 SAS Extract Audit Reports

Extract Audit Reports Menu

**Transmission Management** 

**Table 11: Extract Manager's Options** 

## 7.2 Menu Diagrams

E

Т

From the Systems Manager Menu, perform the following steps listed in Table 12 to obtain information concerning the menus exported with the DSS Extracts software:

 Step
 Action/Menu Option

 1
 Menu Management

 2
 Display Menus and Options

 3
 Menus Diagrams (with Entry/Exit Actions)

 4
 Select USER (U.xxxxxx) or OPTION (O.xxxxxx) name: ECXMGR

 5
 DEVICE: HOME// <Enter> HOME (CRT) Right Margin: 80// <Enter>

Table 12: Steps to Obtain Information on Exported Menus

## 7.3 Standalone Options

All of the DSS Extracts options are designed to stand-alone.

#### 7.4 VA FileMan Access Codes

The Table 13 lists the recommended VA FileMan access codes for the DSS Extract Software.

**File Name** File # Data Read Write **Delete** Learn Definition **Access** Access Access As You Go (DD) (RD) (WR) (DEL) (LAYGO) DSS EXTRACT LOG 727 @ @ @

Table 13: VA FileMan Access Codes

File Name	File#	Data Definition (DD)	Read Access (RD)	Write Access (WR)	Delete Access (DEL)	Learn As You Go (LAYGO)
EXTRACT DEFINITIONS	727.1	۸		٨	٨	۸
DSS LOINC FILE	727.29	۸		٨	٨	۸
DSS DIVISION IDENTIFIER	727.3	۸		٨	٨	۸
DSS WARD	727.4	۸		٨	٨	۸
DSS MH TESTS	727.5	۸		٨	٨	۸
LAB RESULTS TRANSLATION	727.7	@				
ADMISSION EXTRACT	727.802	@	@	@	@	@
CLINIC NOSHOW EXTRACT	727.804					
NURSING EXTRACT	727.805					
DENTAL EXTRACT	727.806					
PHYSICAL MOVEMENT EXTRACT	727.808	@	@	@	@	@
UNIT DOSE LOCAL EXTRACT	727.809	@	@	@	@	@
PRESCRIPTION EXTRACT	727.81	@	@	@	@	@
SURGERY EXTRACT	727.811	@	@	@	@	@
LABORATORY EXTRACT	727.813	@	@	@	@	@
RADIOLOGY EXTRACT	727.814	@	@	@	@	@
EVENT CAPTURE LOCAL EXTRACT	727.815	@	@	@	@	@
CLINIC I EXTRACT	727.816	@	@	@	@	@
TREATING SPECIALTY CHANGE EXTRACT	727.817	@	@	@	@	@
CLINIC II EXTRACT	727.818	@	@	@	@	@
IV DETAIL EXTRACT	727.819	@	@	@	@	@
ADMISSION SETUP EXTRACT	727.82	@	@	@	@	@
PHYSICAL MOVEMENT SETUP EXTRACT	727.821	@	@	@	@	@
TREATING SPECIALTY CHANGE SETUP EXTRACT	727.822	@	@	@	@	@
PAI EXTRACT	727.823					
LAB RESULTS EXTRACT	727.824	@	@	@	@	@
QUASAR EXTRACT	727.825	@	@	@	@	@
PROSTHETICS EXTRACT	727.826	@	@	@	@	@
CLINIC EXTRACT	727.827	@	@	@	@	@
BLOOD BANK EXTRACT	727.829	@	@	@	@	@
DSS TREATING SPECIALTY TRANSLATION	727.831	@	@	@	@	@
BCMA EXTRACT	727.833	@	@	@	@	@

File Name	File#	Data Definition (DD)	Read Access (RD)	Write Access (WR)	Delete Access (DEL)	Learn As You Go (LAYGO)
DSS EXTRACTS	728	@		@	@	@
IV EXTRACT DATA	728.113	@	@	@	@	@
CLINICS AND STOP CODES	728.44	@		@	@	@
NATIONAL CLINIC	728.441	@		@	@	@
DSS DRUG PRODUCT CODE	728.506					
UNIT DOSE EXTRACT DATA	728.904	@	@	@	@	@
DSS PRODUCTION UNIT	729	٨		۸	۸	٨

## 7.5 Security Management

There are no additional security management related concerns associated with the DSS application.

The DSS Extracts software does not impose any additional legal requirements on the user, nor does it relieve the user of any legal requirements.

## 7.6 Security Keys

From the System Manager's Menu perform the following steps listed in Table 14 to obtain the security keys information contained in the DSS Extracts Package:

Table 14: Steps to Obtain Security Key Information

Step	Action/Menu Option
1	VA FileMan
2	Print File Entries
3	OUTPUT FROM WHAT FILE: AUDIT// SECURITY KEY
4	SORT BY: NAME// <enter></enter>
5	START WITH NAME: FIRST// ECX
6	GO TO NAME: LAST// ECXZ
7	WITHIN NAME, SORT BY: <enter></enter>
8	FIRST PRINT FIELD: NAME
9	THEN PRINT FIELD: <b>DESCRIPTION</b> (word-processing)
10	THEN PRINT FIELD: <enter></enter>
11	Heading (S/C): SECURITY KEY LIST// <enter></enter>
12	Start at page: 1// <enter></enter>
13	DEVICE: HOME (CRT) Right Margin: 80// <enter></enter>

#### 7.7 Mail Groups and Alerts

DSS Extracts utilizes a number of mail groups. The name of each mail group is prefaced with the letters "DSS". There is a mail group for each type of data extract (e.g., DSS-BCM, DSS-ADM, etc.) for the purpose of receiving messages when extracts are generated and data is transmitted to the AITC. DSS

also utilizes mail groups DMS, DMV and DMU for the purpose of receiving confirmation messages from the AITC. DSS Extracts do not utilize alerts.

#### 7.8 Remote Systems

DSS Extracts transmit messages containing extracted data to a specified queue located at the AITC. Data is transmitted via VA MailMan at the site's discretion. Confirmation messages are received from the AITC indicating the extract messages were successfully transmitted.

#### 7.9 Contingency Planning

Technical users of the DSS software should ensure that a local contingency plan is used in the event of application problems in a live environment. The plan should identify the procedure(s) for maintaining the functionality provided by the DSS Extracts software in the event of a system outage. Field Station ISOs can get assistance from the RISO.

#### 7.10 Interfacing

There is no special interfacing required for the VistA DSS Extracts software.

## 7.11 Electronic Signatures

The DSS Extracts software does not use electronic signatures.

## 8 Archiving, Deleting or Purging

This section provides information on DSS application software features related to archiving, deleting and purging of DSS data.

#### 8.1 Archiving

DSS Extracts have no archiving capability. There is an option to delete the local extract files after transmission to the commercial software.

#### 8.2 Deleting or Purging

DSS Extracts exports the Delete Extract Files [ECXDELEF] option can be used to delete individual extracts residing in files (#727.802) through (#727.833), or a range of extracts.

Data that resides in the holding files for VBECS (VBECS DSS EXTRACT file (#6002.03), IVP (IV EXTRACT DATA file, (#728.113)) and UDP (UNIT DOSE EXTRACT DATA file (#728.904)) extracts can be purged using the Purge Extract Holding Files [ECXPURG].

Extreme caution should be exercised when purging or deleting data for the following reasons:

- Any existing extract may be deleted (including transmitted and untransmitted) and extracts that did
  not run to completion due to errors or system problems.
- Choosing a range of extracts or holding files sometimes results in an excessively large number of
  records to be deleted or purged and may be very resource intensive. These tasks should be
  scheduled for non-peak hours and the number of deleted or holding files purged should be limited to
  a single queued session.
- Extreme caution must be used when performing maintenance to the IV EXTRACT DATA file
  (#728.113) and the UNIT DOSE EXTRACT DATA file (#728.904). If data in either file is purged, the
  IVP or UDP monthly extract may be incomplete. It is strongly recommended that, at a minimum, sites
  maintain all data from the *current fiscal year*.
- A user can only delete extracts that are associated with the division assigned in their NEW PERSON file (#200).
- Two functions were created to regenerate IVP and UDP holding file data that has been purged.
   These functions are located at:
  - Extract Manager's Options
  - Transmission Management menu
  - Recreate Extract Holding Files

The functions are listed in Table 15:

Table 15: Regenerate IVP & UDP Holding File Options

Option	Description
1	Recreate IVP Extract Holding File (#728.113)
U	Recreate UDP Extract Holding File (#728.904)

#### 8.2.1 Recommendations

Purging of any local VistA extract data or VistA source of extract data (i.e., lab data, etc.) is not recommended until a facility has successfully created extracts, transmitted them to the AITC, audited the counts, loaded the data into DSS, and the validation results are successful.

The IV EXTRACT DATA file (#728.113) and UNIT DOSE EXTRACT DATA file (#728.904) can become quite large if appropriate purging is not performed. The file purge option, Purge Extract Holding Files [ECXPURG], removes the data from these files by date range. It is recommended that records over two fiscal years old should be purged from the IV EXTRACT DATA file (#728.113) and the UNIT DOSE EXTRACT DATA file (#728.904).

VBECS holding files can also be purged. The VBECS holding file cannot be regenerated; therefore extreme care must be used when purging these files.

## 9 External Relations

This section contains information related to external packages with which the DSS application software interacts.

## 9.1 Minimum Software Versions Required

The DSS Extract Package relies on the following external packages based upon the minimum software versions depicted in the Table 16.

**Table 16: External Package Minimum Versions Required** 

Software Product Name	Acronym	Minimum Version Required
Admission Discharge Transfer	ADT	5.3
Bar Code Medication Administration	ВСМА	3.0
DSS Extracts	DSS	3.0
Event Capture	-	2.0
FileMan	-	22.0
Health Level Seven	HL7	1.6
Kernel	-	8.0
Laboratory	-	5.2
Lab: Blood Bank	-	5.2
MailMan	-	8.0
Mental Health	-	5.01
Order Entry/Results Reporting	OE/RR	3.0
Patient Care Encounter	PCE	1.0
Pharmacy: Data Management	PDM	1.0
Pharmacy: Inpatient Medications	-	5.0
Pharmacy: National Drug File	NDF	4.0
Pharmacy: Outpatient Pharmacy	-	7.0
Prosthetics	-	3.0
Quality: Audiology and Speech Pathology Audit & Review	QUASAR	3.0
Radiology	-	5.0
Registration	-	5.3
Scheduling	-	5.3
Surgery	-	3.0

# 9.2 Database Integration Agreements (DBIAs)

Perform the steps in Table 17 from the FORUM Menu to obtain the DBIAs for DSS Extracts 3.0:

**Table 17: Steps to Obtain DBIAs** 

Step	Custodial Package	Subscriber Package
1	DBA MENU	DBA MENU
2	INTEGRATION CONTROL REGISTRATIONS	INTEGRATION CONTROL REGISTRATIONS
3	Custodial Package Menu	Subscriber Package Menu
4	ACTIVE ICRs by Custodial Package	Print ACTIVE by Subscribing Package
5	Select PACKAGE NAME: <b>DSS</b>	START WITH SUBSCRIBING PACKAGE: A//DSS
6	DEVICE: HOME// <enter> SSH VIRTUAL TERMINAL<enter></enter></enter>	GO TO SUBSCRIBING PACKAGE: ZZZ// <b>DSS</b>
7	N/A	DEVICE: <enter> SSH VIRTUAL TERMINAL</enter>

## 10 Internal Relations

All of the DSS Extracts options have been designed to stand-alone. Each option may be independently invoked.

# 11 Package-Wide Variables

The DSS Extracts software does not contain any package-wide variables that must be defined or are required for the package to run.

#### 12 How to Generate Online Documentation

This section describes some of the various methods for users to access DSS Technical documentation. On-line DSS technical documentation pertaining to the DSS software, in addition to that which is located in the Help prompts and Online Help Screens are imbedded throughout the DSS package and can be accessed through utilization of several KERNEL options. These include, but are not limited to, *XINDEX*, *Menu Management Inquire Option File*, *Print Option File and FileMan List File Attributes*.

Entering question marks at the "Select ... Option:" prompt provides users with valuable technical information. For example:

- A single question mark (?) lists all options accessible from the current option.
- Entering two question marks (??) lists all options accessible from the current option displaying the formal name and lock for each.
- Three question marks (???) displays a brief description for each option in a menu while an option name preceded by a question mark (?) displays extended Help, if available, for that option.

To obtain a listing of the available options and additional information about other utilities for On-line technical information, refer to the VistA Kernel Technical Manual.

#### **12.1 XINDEX**

This option analyzes the structure of a routine(s) to determine if the routine(s) adhere(s) to VistA Programming Standards. The XINDEX output includes the following components:

- Compiled list of errors and warnings.
- Routine listing
- Local variables
- Global variables
- Naked globals
- Label references
- External references

When the user executes XINDEX for a specified set of routines, deviations from VistA Programming Standards in the selected routine(s) and routines interactions including routines called or called by other routines, are displayed.

To run XINDEX for the DSS software, specify the following namespaces at the "routine(s)? >" prompt: **ECX\***.

When XINDEX runs the DSS initialization routines residing in the User Class Identifier (UCI), compiled template routines and local routines found within the ECX namespace should be omitted at the "routine(s)?>" prompt. To omit routines from selection, prefacing the namespace with a minus sign (-) is required.

#### 12.2 Inquire To Option File

To access information about DSS options, the user must specify the name or namespace of the desired option(s). The Menu Manager option provides the following information about user-specified option(s):

- Option name
- Menu text

- Option description
- Type of option
- · Lock (if any)

#### 12.3 Print Options File

Use this utility to generate a listing of options from the OPTION file. Users can choose to print all of the entries in this file specifying a single option or a range of options. To obtain a list of DSS options select the **ECX** option for namespace.

#### 12.4 List File Attributes

Use FileMan option List Attributes to generate documentation pertaining to files and file structures. Use the Standard format option to obtain the following data dictionary information for a specified file(s):

- File name and description
- Identifiers
- Cross-references
- Files pointed to by the file specified
- Files which point to the file specified
- Input, print and sort templates

In addition, the following information is supplied for each field in the selected file:

- Field name and number
- Global location
- Description
- Help prompt
- Cross-reference(s)
- Input transform
- Date last edited
- Notes

Use the Global Map format option to generate an output listing of the following:

- All cross-references for the selected file.
- Global location of each field in the file.
- Input, print and sort templates.

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# Appendix B Acronyms & Abbreviations

Abbreviations and acronyms used throughout the DSS Technical Manual appear in Table 18.

**Table 18: Acronyms & Abbreviations Table** 

ADM Admission Extract ADPAC Automated Data Processing Application Coordinator ADT Admission Discharge Transfer AITC Austin Information Technology Center API Application Programmer Interfaces AS Annual Sustainment BCM BCMA Extract BCMA Bar Code Medication Administration CBOC Community Based Outpatient Clinic CLI Clinic Extract CPT Current Procedural Terminology CRT Carriage Return DBA Database Administrator DBIA Database Integration Agreement DD Data Definitions DEC Digital Equipment Corporation DEL Access Delete Access DSS Decision Support System ECS Event Capture Extract ECQ QUASAR Extract HL7 Health Level 7 ICR Integration Control Registration IEN Internal Entry Number IRM Information Resource Management ISO Information Security Officer IVP IV Detail Extract LAR Lab Results Extract LAYGO Learn-As-You-Go MOV Physical Movement Extract NOFE Patient Care Encounter PCE Patient Care Encounter	Term	Definition	
ADT Admission Discharge Transfer AITC Austin Information Technology Center API Application Programmer Interfaces AS Annual Sustainment BCM BCMA Extract BCMA Bar Code Medication Administration CBOC Community Based Outpatient Clinic CLI Clinic Extract CPT Current Procedural Terminology CRT Carriage Return DBA Database Administrator DBIA Database Integration Agreement DD Data Definitions DEC Digital Equipment Corporation DEL Access Delete Access DSS Decision Support System ECS Event Capture Extract ECQ QUASAR Extract HL7 Health Level 7 ICR Integration Control Registration IEN Information Resource Management ISO Information Security Officer IVP IV Detail Extract LAB Laboratory Extract LAR Lab Results Extract LAYGO Learn-As-You-Go MOV Physical Movement Extract NDF National Drug File OE/RR Order Entry/Results Reporting	ADM	Admission Extract	
AITC Austin Information Technology Center API Application Programmer Interfaces AS Annual Sustainment BCM BCMA Extract BCMA Bar Code Medication Administration CBOC Community Based Outpatient Clinic CLI Clinic Extract CPT Current Procedural Terminology CRT Carriage Return DBA Database Administrator DBIA Database Integration Agreement DD Data Definitions DEC Digital Equipment Corporation DEL Access Delete Access DSS Decision Support System ECS Event Capture Extract ECQ QUASAR Extract HL7 Health Level 7 ICR Integration Control Registration IEN Internal Entry Number IRM Information Resource Management ISO Information Security Officer IVP IV Detail Extract LAR Lab Results Extract LAYGO Learn-As-You-Go MOV Physical Movement Extract NDF National Drug File OE/RR Order Entry/Results Reporting	ADPAC	Automated Data Processing Application Coordinator	
API Application Programmer Interfaces AS Annual Sustainment BCM BCMA Extract BCMA Bar Code Medication Administration CBOC Community Based Outpatient Clinic CLI Clinic Extract CPT Current Procedural Terminology CRT Carriage Return DBA Database Administrator DBIA Database Integration Agreement DD Data Definitions DEC Digital Equipment Corporation DEL Access Delete Access DSS Decision Support System ECS Event Capture Extract ECQ QUASAR Extract HL7 Health Level 7 ICR Integration Control Registration IEN Information Resource Management ISO Information Security Officer IVP IV Detail Extract LAB Laboratory Extract LAYGO Learn-As-You-Go MOV Physical Movement Extract NDF National Drug File OE/RR Order Entry/Results Reporting Outpart Control Programmer Interfaces Name Annual Sustainment DEC Discount Control Registration	ADT	Admission Discharge Transfer	
AS Annual Sustainment BCM BCMA Extract BCMA Bar Code Medication Administration CBOC Community Based Outpatient Clinic CLI Clinic Extract CPT Current Procedural Terminology CRT Carriage Return DBA Database Administrator DBIA Database Integration Agreement DD Data Definitions DEC Digital Equipment Corporation DEL Access Delete Access DSS Decision Support System ECS Event Capture Extract ECQ QUASAR Extract HL7 Health Level 7 ICR Integration Control Registration IEN Information Resource Management ISO Information Security Officer IVP IV Detail Extract LAB Laboratory Extract LAYGO Learn-As-You-Go MOV Physical Movement Extract MCAO Managerial Cost Accounting Office MOV Physical Movement Extract NDF National Drug File OE/RR Order Entry/Results Reporting	AITC	Austin Information Technology Center	
BCMA Bar Code Medication Administration  CBOC Community Based Outpatient Clinic  CLI Clinic Extract  CPT Current Procedural Terminology  CRT Carriage Return  DBA Database Administrator  DBIA Database Integration Agreement  DD Data Definitions  DEC Digital Equipment Corporation  DEL Access Delete Access  DSS Decision Support System  ECS Event Capture Extract  ECQ QUASAR Extract  HL7 Health Level 7  ICR Integration Control Registration  IEN Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAB Laboratory Extract  LAR Lab Results Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	API	Application Programmer Interfaces	
BCMA Bar Code Medication Administration  CBOC Community Based Outpatient Clinic  CLI Clinic Extract  CPT Current Procedural Terminology  CRT Carriage Return  DBA Database Administrator  DBIA Database Integration Agreement  DD Data Definitions  DEC Digital Equipment Corporation  DEL Access Delete Access  Delete Access  Design Support System  ECS Event Capture Extract  ECQ QUASAR Extract  HL7 Health Level 7  ICR Integration Control Registration  IEN Internal Entry Number  IRM Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAB Laboratory Extract  LAR Lab Results Extract  LAYGO Learn-As-You-Go  LBB Blood Bank Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR  Order Entry/Results Reporting	AS	Annual Sustainment	
CBOC Community Based Outpatient Clinic  CLI Clinic Extract  CPT Current Procedural Terminology  CRT Carriage Return  DBA Database Administrator  DBIA Database Integration Agreement  DD Data Definitions  DEC Digital Equipment Corporation  DEL Access Delete Access  DSS Decision Support System  ECS Event Capture Extract  ECQ QUASAR Extract  HL7 Health Level 7  ICR Integration Control Registration  IEN Internal Entry Number  IRM Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAB Laboratory Extract  LAR Lab Results Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	BCM	BCMA Extract	
CLI Clinic Extract  CPT Current Procedural Terminology  CRT Carriage Return  DBA Database Administrator  DBIA Database Integration Agreement  DD Data Definitions  DEC Digital Equipment Corporation  DEL Access Delete Access  DSS Decision Support System  ECS Event Capture Extract  ECQ QUASAR Extract  HL7 Health Level 7  ICR Integration Control Registration  IEN Internal Entry Number  IRM Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAB Laboratory Extract  LAR Lab Results Extract  LAYGO Learn-As-You-Go  LBB Blood Bank Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR  Order Entry/Results Reporting	ВСМА	Bar Code Medication Administration	
CPT Current Procedural Terminology CRT Carriage Return  DBA Database Administrator  DBIA Database Integration Agreement  DD Data Definitions  DEC Digital Equipment Corporation  DEL Access Delete Access  DSS Decision Support System  ECS Event Capture Extract  ECQ QUASAR Extract  HL7 Health Level 7  ICR Integration Control Registration  IEN Internal Entry Number  IRM Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAR Lab Results Extract  LAR Lab Results Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR  Order Entry/Results Reporting	CBOC	Community Based Outpatient Clinic	
CRT Carriage Return  DBA Database Administrator  DBIA Database Integration Agreement  DD Data Definitions  DEC Digital Equipment Corporation  DEL Access Delete Access  DSS Decision Support System  ECS Event Capture Extract  ECQ QUASAR Extract  HL7 Health Level 7  ICR Integration Control Registration  IEN Internal Entry Number  IRM Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAR Laboratory Extract  LAR Lab Results Extract  LAYGO Learn-As-You-Go  LBB Blood Bank Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	CLI	Clinic Extract	
DBA Database Administrator  DBIA Database Integration Agreement  DD Data Definitions  DEC Digital Equipment Corporation  DEL Access Delete Access  DSS Decision Support System  ECS Event Capture Extract  ECQ QUASAR Extract  HL7 Health Level 7  ICR Integration Control Registration  IEN Internal Entry Number  IRM Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAB Laboratory Extract  LAR Lab Results Extract  LAYGO Learn-As-You-Go  LBB Blood Bank Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	CPT	Current Procedural Terminology	
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DEC Digital Equipment Corporation  DEL Access Delete Access DSS Decision Support System  ECS Event Capture Extract  ECQ QUASAR Extract  HL7 Health Level 7  ICR Integration Control Registration  IEN Internal Entry Number  IRM Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAB Laboratory Extract  LAR Lab Results Extract  LAYGO Learn-As-You-Go  LBB Blood Bank Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	DBIA	Database Integration Agreement	
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HL7 Health Level 7  ICR Integration Control Registration  IEN Internal Entry Number  IRM Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAB Laboratory Extract  LAR Lab Results Extract  LAYGO Learn-As-You-Go  LBB Blood Bank Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	ECS	Event Capture Extract	
ICR Integration Control Registration  IEN Internal Entry Number  IRM Information Resource Management  ISO Information Security Officer  IVP IV Detail Extract  LAB Laboratory Extract  LAR Lab Results Extract  LAYGO Learn-As-You-Go  LBB Blood Bank Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	ECQ	QUASAR Extract	
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IRM Information Resource Management ISO Information Security Officer IVP IV Detail Extract LAB Laboratory Extract LAR Lab Results Extract LAYGO Learn-As-You-Go LBB Blood Bank Extract MCAO Managerial Cost Accounting Office MOV Physical Movement Extract NDF National Drug File OE/RR Order Entry/Results Reporting	ICR	Integration Control Registration	
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LAYGO Learn-As-You-Go  LBB Blood Bank Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	LAB	Laboratory Extract	
LBB Blood Bank Extract  MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	LAR	Lab Results Extract	
MCAO Managerial Cost Accounting Office  MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	LAYGO	Learn-As-You-Go	
MOV Physical Movement Extract  NDF National Drug File  OE/RR Order Entry/Results Reporting	LBB	Blood Bank Extract	
NDF National Drug File OE/RR Order Entry/Results Reporting	MCAO	Managerial Cost Accounting Office	
OE/RR Order Entry/Results Reporting	MOV	Physical Movement Extract	
	NDF	National Drug File	
PCE Patient Care Encounter	OE/RR	Order Entry/Results Reporting	
	PCE	Patient Care Encounter	

Term	Definition		
PDM	Pharmacy Data Management		
PRE	Prescription Extract		
PRO	Prosthetics Extract		
QUASAR	Quality: Audiology and Speech Pathology Audit & Review		
RAD	Radiology Extract		
RD	Read Access		
RISC	Reduced Instruction Set Computer/Computing		
RISO	Regional Information Security Officer		
SAS	Statistical Analysis System		
SSH	Secure Shell		
SUR	Surgery Extract		
TRT	Treating Specialty Change Extract		
UCI	User Class Identifiers		
UDP	Unit Dose Local Extract		
VA	Department of Veterans Affairs		
VBECS	VistA Blood Establishment Computer Software		
VDL	Vista Documentation Library		
VHA	Veterans Health Administration		
VistA	Veterans Health Information Systems and Technology Architecture		
WR Access	Write Access		
YTD	Year-to-Date		

# Appendix C Reference & Related Manuals

Table 19 lists the manuals related to DSS that are available to view on the <u>VA Software Documents</u> <u>Library (VDL) for DSS</u> and the <u>VDL for the Kernel Infrastructure</u>.

Table 19: Reference & Related Manuals on the VDL

File Name	Manual Name	Description
DSS Extracts Installation Guide	DSS Extracts V3.0 Installation Guide	Provides instructions on the installation of DSS Extracts application software.
DSS_3_FY2017_DD	DSS Extracts V3.0 Data Definitions Guide	Provides detailed information that defines the data terminology.
DSS_3_FY2017_UM	DSS Extracts V3.0 Extracts User Manual	Provides guidance for users of the DSS application software.
DSS_3_FY2017_RN	DSS Extracts V3.0 Extracts Release Notes	Provides an overview of the new functionality and enhancements on the current release of the DSS application software.
Kernel Technical Manual	VistA Kernel Technical Manual Version 8.0	Provide users with technical information for Kernel operations.